

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/16/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-49
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc cover Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

area mown regularly, mower ruts

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>- Near Bldg 072 & gravel road on South perimeter</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>- Geomorphin pointing</i> <i>- FAE Neutral</i> <i>- Depleted matrix + Redox Patch Surface</i> <i>- confide mounds</i> <i>- Shallow basin borders on south by perimeter road and east by gravel drive</i> <i>- 8" culvert under gravel road</i> <i>- water collects in mower ruts</i> <i>- nothing very significant (vegetated)</i> <i>- Boundary - A's in veg + slight slope in area</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Eleocharis obtusa</i>	X		OBL	
2. <i>R16</i>	X		FAEW	
3. <i>Typha angustifolia</i>			OBL	
4. <i>Echinochloa crus-galli</i>			FAEW	
5. <i>Scleropholus foler.</i>			OBL	
6. <i>Atriplex patula</i>			FAEW	
7. <i>Hordeum jubatum</i>	X		FAE	
8. <i>Solidago sempervirens</i>			FAEW	
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				Pics 8:50
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Hom = depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/16/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-50
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc CONVR Section, Township, Range:
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? area mown, mower cuts

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				-swale from north drains to culvert on road -gravel shoulder on road -riprap around driveway culvert
2.				
3.				
4.				
5.				
			= Total Cover	
Sapling/Shrub Stratum				Other Notes -standing water at driveway culvert and road culvert -riprap reinforced. -algae material in water -Phrag. in standing water -swale drains to this area; dominated by spike reed
1.				
2.				
3.				
4.				
			= Total Cover	
Herb Stratum				-connects to SE19-49 -mower cuts significant -at southern end of swale Pics 9:15
1. <i>Phragmites australis</i>			FAW	
2. <i>Sagittaria arifolia</i>			FAW	
3. <i>Arundo donax</i>	X		FAW	
4. <i>Botriochloa fluviatilis</i>	X		OBL	
5. <i>Sagittaria arifolia</i>			OBL	
6. <i>Elymus canadensis</i>	X		OBL	
7. <i>Echinochloa crus-galli</i>			FAW	
8. <i>Atriplex patula</i>			FAW	
9.				
10.				
11.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/16/19
Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-51
Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____
NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? *See above, mower rub*

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum		Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.					
2.					
3.					
4.					
5.					
_____ = Total Cover					Other Notes
Sapling/Shrub Stratum					
1.					
2.					
3.					
4.					
_____ = Total Cover					<p>- swale drains to culvert under driveway of Bldg 079</p> <p>- expands out in low shallow basin in field</p> <p>- Redox dark surface</p> <p>- Geomorphic pocket</p> <p>- Standing water in vats</p> <p>- a lot of this wetland is FAC except for swale to culvert where more FACW to OBL species come in.</p> <p>- vats significant; holding water, impeding drainage to culvert.</p> <p>- Boundary A's in veg on</p>
Herb Stratum					
1.	<i>Hordeum jubatum</i>	X		FAC	
2.	<i>Phragmites australis</i>			FACW	
3.	<i>Sagittaria</i> (?)				
4.	<i>Botrychium flexuosum</i>	X		OBL	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
_____ = Total Cover					
Wood Vine Stratum					<p>Pis 9:50 west + north</p>
1.					
2.					
_____ = Total Cover					
Remarks: (Include photo numbers here or on a separate sheet.)					
Depression.					- swale tops for rest.

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/16/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-52
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc. *Coner* Section, Township, Range:
 NWI classification: *PEM*

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed? *mower ruts along edges*

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Near Grad Post #3
2.				- swale along perimeter fence.
3.				- drain to a 24" culvert under localizer access
4.				
5.				
= Total Cover				Other Notes driveway
Sapling/Shrub Stratum				- Culvert surrounded w/ rip rap
1.				- Ditch near culvert rip rap bank covered by thin soil deposition
2.				- standing water in ruts on east side
3.				- cracked soils
4.				
5.				
= Total Cover				- saturation on east end
Herb Stratum				- Culvert blocked by gravel
1. <i>Phragmites australis</i>			FACW	- Redox soil surface
2. <i>Bolboschoenus pectinatus</i>			OBL	- <i>Geomorphus pectinatus</i>
3. <i>Solidago sempervirens</i>			FACW	- mower ruts on east side
4. <i>Typha angustifolia</i>			OBL	
5. <i>Eleocharis obliqua</i>			OBL	
6. <i>Atriplex patula</i>			FACW	
7. <i>Hordeum jubatum</i>			FAW	
8. <i>Schlotheimia palustris</i>			OBL	
9. <i>Echinochloa crus-galli</i>			FACW	
10.				
11.				
12.				
= Total Cover				Pics 11:25
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Hm = depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/16/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-54
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Conor Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☒ significantly disturbed? mower cuts, bare soil, blocked culvert
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic? under driveway

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<u>Near 4122 Localizer Bldg 032</u>
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes <u>- Soils very disturbed by rutting</u> <u>- Culvert blocked</u> <u>- Crooked soils</u> <u>- geomorphic pattern</u> <u>- Swale</u> <u>- Standing water in rut near culvert.</u>
1.				
2.				
3.				
4.				
5.				
Herb Stratum			= Total Cover	
1. <u>Typha angustifolia</u>			<u>OBL</u>	
2. <u>Scheuchzeria palustris</u>			<u>OBL</u>	
3. <u>Echinocystis gres-galli</u>			<u>FACW</u>	
4. <u>Bilbo. fluv.</u>			<u>OBL</u>	
5. <u>Persicaria pensylvanicum</u>			<u>FACW</u>	
6. <u>Rumex crispus</u>			<u>FAC</u>	
7.				
8.				
9.				
10.				
11.				
12.				
Wood Vine Stratum			= Total Cover	<u>Res: 2:55</u>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)

City/County: DuPage/Cook

Sampling Date: 8/21/2019

Applicant/Owner: City of Chicago

State: Illinois

Wetland #: SW 56

Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc

Section, Township, Range:

NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Area 4, south of 10L near S.W./SE boundary
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

depleted matrix, standing H₂O, high water table
saturation, no drain/culvert; depressionnal

wet meadow community Area of disturbed / freshly planted seed to North

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)City/County: DuPage/CookSampling Date: 8/21Applicant/Owner: City of ChicagoState: IllinoisWetland #: 8W 57Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc

Section, Township, Range: _____

NWI classification: PEMAre climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				in P4 area on area 5 South of 10L near SW/SE boundary
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes depleted matrix
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	- rain 8/20 - Large electrical box on surface and under grassy area which might be contributing to lack of drains and standing water
Herb Stratum				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
			= Total Cover	
Wood Vine Stratum				
1.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

vegetation = sprouting grass + bare soil w/ some patches of
barnyard grass; bare soil = 50-55% in one area; standing H₂O
large area within P4.

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/20/2019
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE 58
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____


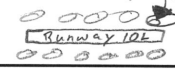
NWI classification: _____

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1. 				North of 10L in last grassy area west of the east end of the runway. 
2.				
3.				
4.				
5.				
		= Total Cover		Other Notes - standing water - F6 soils redox dk surface - mown area
Sapling/Shrub Stratum				
1.				
2.				
3.				
		= Total Cover		- rain 8/20 Hydro = Standing water, High water table, Saturation, Geomorphic, FAC-neutral
Herb Stratum				
1. <i>Echinochloa crus galli</i>		Y	FACW	
2. <i>Cyperus esculentus</i>		Y	FACW	
3. <i>Setaria pumila</i>		X	FAC	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
		= Total Cover		
Wood Vine Stratum				
1.				
2.				
		= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

small wetland @ base of raised area w/ manhole lid; depressional
 - some rutting

wet meadow community type

depression south of raised mound

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/21
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW 59
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____

NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?

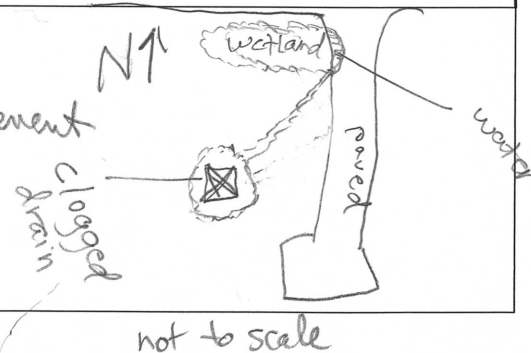
Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				10L/28R area P4 SW corner
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes standing water due to clay lens F6 rained 8/20 10 OBL plant in H ₂ O - see photo water primrose?
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Echinochloa crus galli</i>		Y		
2. <i>Polygonum pennsylvanicum</i>		Y		
3. <i>Eleocharis</i> sp				
4.				
5.				
6.				
7.				
8. @ drain				
9. <i>Echinochloa crus galli</i>		Y		
10. <i>Setaria pumila</i>		Y	FAC	
11. <i>Rumex crispus</i>		N		
12. <i>Cyperus esculentus</i>		Y	FACW	
<i>Lythrum salicaria</i>		N		
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Blocked drain causing hydrology surrounded on 2 of 3 sides by pavement graded toward clogged drain
depressional, wet meadow



WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)City/County: DuPage/CookSampling Date: 8/22/19Applicant/Owner: City of ChicagoState: IllinoisWetland #: SEP-60Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc

Section, Township, Range: _____

NWI classification: PEMAre climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? mown; rutsAre Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				on south perimeter road near Runway 4/22 End - to slope area w/ rutting from mowers
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - standing water - redox dark surface - mower ruts contain standing water - have soil due to water - very disturbed by ruts
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Phragmites australis</i>	X		FACW	
2. <i>Solidago serotina</i>			FACW	
3. <i>Suaeda calceoliformis</i>	X		FACW	
4. <i>Atriplex patula</i>			FACW	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				MRS 12:30
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)City/County: DuPage/CookSampling Date: 9/22/19Applicant/Owner: City of ChicagoState: IllinoisWetland #: WIEA-61Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc

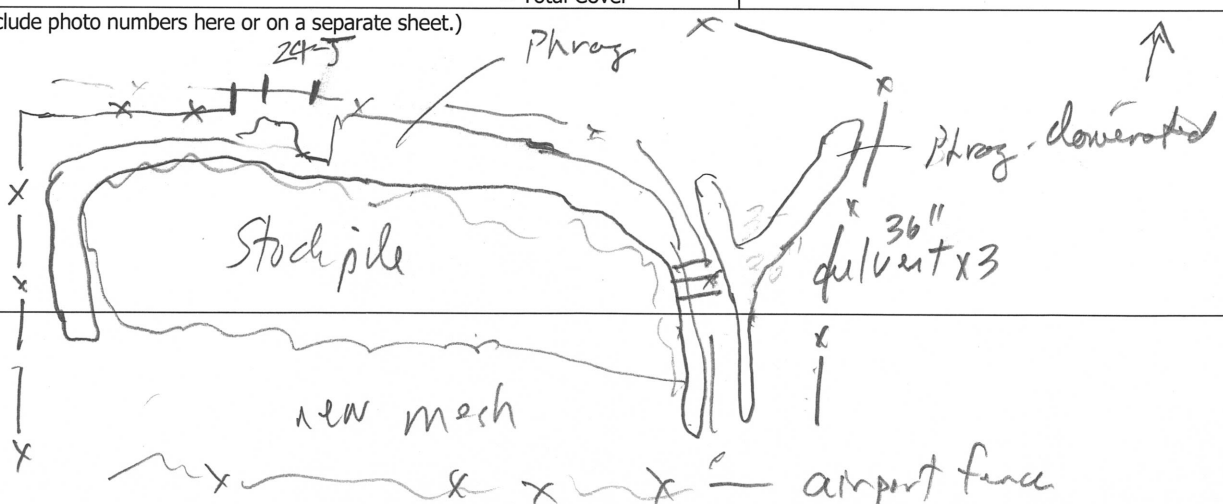
Section, Township, Range: _____

NWI classification: PEMAre climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?*along base of stockpile; likely soil deposition in areas*

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Gate</i> Inside security fence 2A-5 Upper Express Drive - Standing water and stagnant smelt near culverts
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - Depleted (7/1) - Depleted (6/1) 5 inches over 7/1 + 5/6 redox - Redox dark surface near culverts
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	- 11 East - - old house site w/ foundation, concrete steps, maybe a cistern or septic tank - mostly buckthorn, some dead standing cottonwoods, six elders - too dry? Pics 3:45
Herb Stratum				
1. <i>Phragmites australis</i>	X		FACW	
2. <i>Hordeum jubatum</i>	X		FAC	
3. <i>Solidago sempervirens</i>			FACW	
4. <i>Phalaris arundinacea</i>			FACW	
5. <i>Lythrum salicaria</i>			OBL	
6.				
7.				
8.				
9.				
10.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)



WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD)City/County: DuPage/CookSampling Date: 8/22/19Applicant/Owner: City of ChicagoState: IllinoisWetland #: NE19-62Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc

Section, Township, Range: _____

NWI classification: PEMAre climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				+ Express way - near fence side
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes - cracked soils - water stained leaves - Depleted matrix (F3) - Depleted Below (A11) - Bare soils in places - Orange patterns - Crayfish burrows
1.				
2.				
3.				
4.				
Herb Stratum			= Total Cover	- Mix of veg but obvious hydrology and soils - - Cottonwood - water nearby but water in boundary
1.				
2.	<i>Eupatorium serotinum</i>		FACW	
3.	<i>Lythrum salicaria</i>		ORSL	
4.	<i>Fraxinus penn.</i>		FACW	
5.	<i>Euthamia graminifolia</i>		FAC	
6.	<i>Carex sp</i>			
7.				
8.	<i>Rhynchospora alba</i>		FAC	
9.				
10.	<i>Solanum elaeagnifolium</i>		FACW	
11.	<i>Paspalum conjugatum</i>		FACW	
12.				
Wood Vine Stratum			= Total Cover	Pics 5:15
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

TN

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/23
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-63
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				near Y3
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes F6 soils depressional, ruts
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Echinochloa crus galli</i>		Y	FACW	
2. <i>Polygonum pennsylvanicum</i>		N	FACW	
3. <i>Hordeum jubatum</i>		N	FAC	
4. <i>Glyceria striata</i>		Y	DBI	
5. <i>Trifolium repens</i>		Y	FACU	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

wetland due to rutting; water accumulate due to geomorphic position; fac-neutral

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/22
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE 19-04
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? area mmm

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				near Y3
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <u>Eleocharis obtusa</u>		<u>Y</u>	<u>OBL</u>	
2. <u>Hordeum jubatum</u>		<u>N</u>	<u>FAC</u>	
3. <u>Cyperus esculentus ?</u>		<u>N</u>		
4. <u>Echinochloa crus galli</u>		<u>N</u>	<u>FAC</u>	
5. <u>Polygonum pennsylvanicum</u>		<u>N</u>	<u>FAC</u>	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	Pix 9:00a
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

hydrology due to geomorphic position, depressional

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/23
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE 19-65
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? area mown, rut

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				near ^(sw) building w/ orange/white tower # 072
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes geomorphic position depressional ruts depleted matrix F3
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1.				
1. <i>Echinochloa crus galli</i>		Y	FAW	
2. <i>Eleocharis obtusum</i>		Y	OBL	
3. <i>Cyperus esculentus</i>			FAW	
4. <i>Glyceria striata</i>		N	OBL	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	return to delineate all
Wood Vine Stratum				
1.				
2.				pix @ 9:40am
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)
 some bare soil in ruts
 large wetland that continues south, then east (?)

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 5/23
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE19-66
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc CM Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? area mown

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<u>N side of bldg #072</u>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <u>depressional, ruts</u> <u>geomorphic position</u> <u>F3</u>
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				<u>Pix@ 9:58</u>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

patchy as move away from ruts
veg path has change in color

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/23
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE 19-67 N/G
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

area mown + significant rutting
3 part ditch

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				ditch along snow road/ service road
2.				
3.				
4.				
5.				
			= Total Cover	
Sapling/Shrub Stratum				Other Notes F6, F3, A11 present clay standing water, nts rip rap @ culverts geomorphic position- Fac needed some side culverts; C+S faucal multimodal unknown in ditch; not flowering yet depression
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Solidago sempervirens</i> ? or mm unknown		N	FACW	
2. <i>Hordeum jubatum</i>		N	FAC	
3. <i>Phragmites australis</i>		N	FACW	
4. <i>Bolboschoenus fluviatilis</i>		Y	DBL	
5. <i>Suaeda calce</i>		Y	FACW	
6. <i>Atriplex</i>		N		
7. <i>Echinochloa crus galli</i>		N	FACW	
8.				
9. unknown grass <i>rayana</i>				
10. <i>Central</i>				
11. <i>Phragmites australis</i>		N		
12. <i>Suaeda calce</i>		Y		
			= Total Cover	
Wood Vine Stratum				
1. <i>Hordeum jubatum</i>		N	FAC	
2. <i>SOUTH</i>				
			= Total Cover	
<i>Polygonum pennsylvanicum</i>		N	FACW	

Remarks: (Include photo numbers here or on a separate sheet.)

<i>Solidago sempervirens</i>	Y	FACW
<i>Bolboschoenus fluviatilis</i>	Y	
<i>Echinochloa crus galli</i>	N	FACW
<i>Hordeum jubatum</i>	N	FAC
<i>Atriplex</i>	N	

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/23
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE 19-68
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc., CM Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)


Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed? area mown

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				near + wrapping around bldg #091
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	F3, F6, all soils
Herb Stratum				
1.		<u>Juncus nodosus</u>	<u>Y</u> <u>OBL</u>	
2.		<u>Carex stipitata</u>	<u>Y</u> <u>OBL</u>	
3.		<u>RCE</u>	<u>N</u> <u>FACW</u>	
4.		<u>Eleocharis palustris</u>	<u>Y</u> <u>FACW</u>	
5.		<u>Echinochloa crus galli</u>	<u>N</u> <u>FACW</u>	
6.		<u>Cyperus squarrosus</u>	<u>N</u> <u>OBL</u>	
7.		<u>Pennisetum pennsylvanicum</u>	<u>N</u> <u>FACW</u>	
8.		<u>Cyperus esculentus</u>	<u>N</u> <u>FACW</u>	
9.		<u>Glyceria striata</u>	<u>N</u> <u>OBL</u>	
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)
 geomorphic position, depressionnal swale, Fac neutral
 nuts



WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/23/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NE-69
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc | CBM Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				by Touhy Rd - moved around edge
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes cracked soils, depression, geomorphic position algae mats
1.				
2.				
3.				
4.				
Herb Stratum			= Total Cover	F6 some construction debris @ edge
1. <i>Typha angustifolia</i>	X		OBL	
2. <i>Cyperus esculentus</i>			FACW	
3. <i>Echinochloa crus galli</i>			FACW	
4. <i>Phragmites australis</i>			FACW	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
Wood Vine Stratum			= Total Cover	Need Pirs
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Typha *Typha* N↑

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/26/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW19-70
 Investigator(s): Brauna Hartzell, Kim Shannon, Mead & Hunt, Inc Section, Township, Range: and 71
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

area mown; constructed ditch

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Guts 15B - Twy AB open area</i>
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes <i>2 culverts</i> <i>- 24" flows south under construction haul road</i> <i>- 24" flows east under perimeter road to airport drainage</i>
1.				
2.				
3.				
4.				
Herb Stratum			= Total Cover	<i>- maintained ditch next to large stockpile</i> <i>- Ditch flows north</i> <i>- wraps around stockpile to south then east</i> <i>- culverts inflowing</i>
1.	<i>x</i>		<i>OBL</i>	
2.			<i>OBL</i>	
3.			<i>OBL</i>	
4.			<i>OBL</i>	
5.			<i>FACW</i>	
6.			<i>OBL</i>	
7.			<i>FACW</i>	
8.	<i>x</i>		<i>OBL</i>	
9.			<i>OBL</i>	
10.			<i>FACW</i>	
11.				
12.				
Wood Vine Stratum			= Total Cover	<i>Pres 12:05</i> <i>↑N</i>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

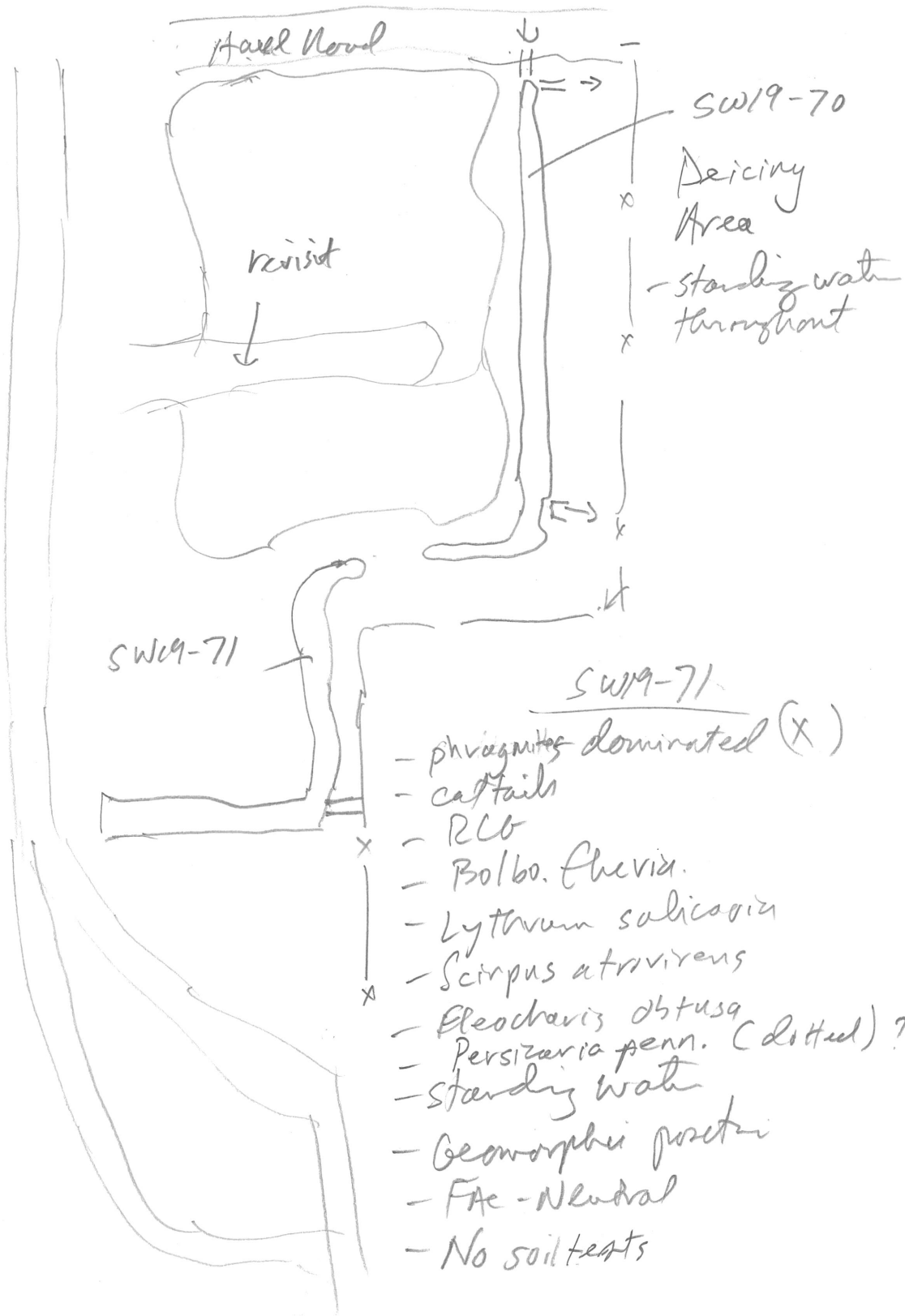
Depression

see back for map

note
before,
during and after morning
rain storm

Active Stockpile
activity

↑ N



WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: 5019-72
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEH

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

mower cuts; are mown regularly

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Between Twy W & Runway 10R in large infield area.</i>
2.				
3.				
4.				
5.				
= Total Cover				Other Notes <i>- deep inlet at east end</i> <i>- Redox band surface</i> <i>- disconnected from inlet</i> <i>- mower cuts have created a slight down / shelf to hold water</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
= Total Cover				<i>- small area w/ poor drainage</i> <i>- geomorphic position</i> <i>- Ftc - Neutral</i> <i>- heavy vegetation (1.4") right before</i> <i>- standing water</i>
Herb Stratum				
1. <i>Echinochloa crus-galli</i>	X		FACU	
2. <i>Cyperus caryophyllus</i>			FACU	
3. <i>Sphocarpus pinnatifidus</i>	X		OBC	
4. <i>Trifolium pratense</i>			FACU	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
= Total Cover				
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW19-73
 Investigator(s): Brauna-Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: DEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

*common regularly; common
 + flooded; some disturbance
 to soil - open bare area*

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Near connector W of 11th @ south end of smaller impoundment
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes standing water - not disconnected from east end of wetland - poor drainage off of two
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	Accumulation right before (1.4") - Redox deplete surface - very shallow swale - at east end, ground slightly higher, traps water PICS 9:10
Herb Stratum				
1. <i>Echinochloa crus-galli</i>	X		FACW	
2. <i>Pennisetum maculatum</i>	X		FACW	
3. <i>Calamagrostis</i>				
4. <i>Sagittaria</i>			FAC	
5. <i>Cyperus esculentus</i>			FACW	
6.				
7. <i>Hordeum jubatum</i>			FAC	
8.				
9.				
10.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SW19-74
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Ditch located near Leidy road along perimeter road - across from SW19-70 - 36" culvert at north end
2.				
3.				
4.				
5.				
= Total Cover				Other Notes - flows north. - riprap around culvert, also some concrete logs - flowing water - geomorphic portion - FAC Neutral
Sapling/Shrub Stratum				
1.				
2.				
3.				
= Total Cover				- small input culvert from west side flows (12") east? - Along east side of perimeter road.
Herb Stratum				
1. <i>Typha angustifolia</i>	X		OBL	
2. <i>Eleocharis acris-galli</i>			FACW	
3. <i>Cyperus spicatus</i>			OBL	
4. <i>Plecchocallis obtusa</i>			OBL	
5. <i>Scheuchzeria palustris</i>	X		OBL	
6. <i>Juncus nodosus</i>			OBL	
7. <i>Bolboschoenus fluviatilis</i>			OBL	
8. <i>Persicaria hydropiper</i>			FACW	
9. <i>Scirpus atrovirens</i>			OBL	
10. <i>Alisma subcordatum</i>			OBL	
11. <i>Cyperus esculentus</i>			FACW	
12.				
= Total Cover				Pics 9:55am
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
 depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NW19-75
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

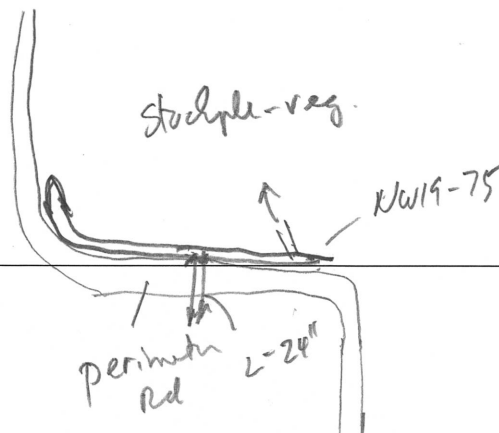
*Rainstorm night/day before (1.4")
Ditch construction*

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Ditch wetland Flowing water
2.				
3.				
4.				
5.				
= Total Cover				Other Notes 48" culvert at east end which carries flow to north Ditch at base of stockpile - wraps around - generally ditch flows to east
Sapling/Shrub Stratum				
1.				
2.				
3.				
= Total Cover				- from 8-12 ft wide - steep sides on south - more gradual on north - Standing water in places - 2-24" input side culvert from south
Herb Stratum				
1. <i>Cyperus erubescens</i>	X		FACW	
2. <i>Phytolacca rugosa</i>			FACW	
3. <i>Boraginaceae</i>	X		OBL	
4. <i>Lythrum salicaria</i>			OBL	
5. <i>Typha angustifolia</i>	X		OBL	
6. <i>Echinochloa crus-galli</i>			FACW	
7. <i>Alisma subcordatum</i>			OBL	
8. <i>Sagittaria arifolia</i>			OBL	
9. <i>Echinocystis lobata</i>			OBL	
10. <i>Eleocharis obtusa</i>			OBL	
= Total Cover				
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Depression



Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
Applicant/Owner: City of Chicago State: Illinois Wetland #: NW19-76
Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
NWI classification: PEM

Are Vegetation ☐, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Ditch wetland - SW of Denton Area w/ willow creek - Along side temporary ^{haul} ^{road}
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes - shallow swale - unknown - appears to flow SE
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	- glaucous green - standing water
Herb Stratum				
1. <i>Juncus nodosus</i>	X		OBL	
2. <i>Typha angustifolia</i>			OBL	
3. <i>Scheuchzeria palustris</i>	X		OBL	
4. <i>Scirpus atrovirens</i>			OBL	
5. <i>Cyperus erectus</i>			FAW	
6. <i>Eleocharis obliqua</i>	X		OBL	
7. <i>Lythrum Salicaria</i>			OBL	
8.				
9.				
10.				
11.				
12.				
			= Total Cover	- under road culvert drains into this from north - appears to be a closed system? - North culvert connects to rip-rapped ditch w/ rd.
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

re or on a separate sheet.)

hard road (deposition area)

appears to be found

gravel road

includes a small area
connected by culvert
to west -

- rip rap lined
- phragmites + typha terminated
- Steep-sided
- depleted matrix
- Saturation

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NW19-78
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

area mown, soils disturbed due to mower cuts; stockpile activity

ADDITIONAL VEGETATION - Use scientific names of plants

	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
Tree Stratum				
1.				
2.				
3.				
4.				
5.				
= Total Cover				
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
= Total Cover				
Herb Stratum				
1. <i>Echinochloa obtusa</i>	X		OBL	
2. <i>Typha angustifolia</i>			OBL	
3. <i>Scirpus atrovirens</i>				
4. <i>PCG</i>	X			
5. <i>Rumex crispus</i>			FAC	
6. <i>Rythmus satureia</i>			OBL	
7.				
8.				
9.				
10.				
11.				
12.				
= Total Cover				
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

depression

Pics 6:00

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/28/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NWR-79
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: DFM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

area mown; ditch constructed

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Drainage swale near west end 9R</i> <i>- shallow swale</i>
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes <i>- geophytes present</i> <i>- Depleted matrix</i> <i>- along Tary canals</i>
1.				
2.				
3.				
4.				
5.				
Herb Stratum			= Total Cover	
1. <i>Echinodon crus-galli</i>			<i>FACW</i>	
2. <i>Eleocharis obtusa</i>			<i>OBSL</i>	
3. <i>Persicaria maculosa</i>			<i>FAC</i>	
4. <i>Cyperus erulentus</i>			<i>FACW</i>	
5. <i>Schoenus. tuber</i>			<i>OBSL</i>	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
Wood Vine Stratum			= Total Cover	<i>Pics 8:15</i>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression
Wet meadow / Ditch wetland

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/28/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NE19-80
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

in RSA, mown frequently

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Rwy 9R RSA, northside</i>
2.				
3.				
4.				
5.				
= Total Cover				Other Notes <i>F3</i> <i>Shallow basin</i> <i>FAC Neutral</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
= Total Cover				
Herb Stratum				
1. <i>Cyperus exaltatus</i>	<i>X</i>		<i>FACW</i>	
2. <i>Eleocharis acicularis</i>	<i>X</i>		<i>FACW</i>	
3. <i>Pennisetum maculatum</i>			<i>FAC</i>	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
= Total Cover				<i>PIL 9:10</i>
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 2/28/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NW9-81
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? warm, rut

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<u>Rwy 9R, RSA, north</u>
2.				
3.				
4.				
5.				
= Total Cover				Other Notes <u>Sticky water</u> <u>F3, A11</u> <u>Shallow Well</u>
Sapling/Shrub Stratum				
1.				
2.				
3.				
= Total Cover				
Herb Stratum				
1. <u>Scirpus atrovirens</u>	<u>X</u>		<u>OBL</u>	
2. <u>Typha nodosa</u>			<u>OBL</u>	
3. <u>Paspalum maculatum</u>			<u>FACW</u>	
4. <u>Tridax subulatum</u>			<u>FAC</u>	
5. <u>Carex stricta?</u>	<u>X</u>		<u>OBL</u>	
6. <u>Cyperus esculentus</u>			<u>FACW</u>	
7.				
8.				
9.				
10.				
11.				
12.				
= Total Cover				<u>Pics 9:30?</u>
Wood Vine Stratum				
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/28/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NW/9-82
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: 1EM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

moor, construction

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Near Twy R connector Rwy 9R RSA</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>F3, A11</i> <i>Grassier prairie</i> <i>mower cuts</i> <i>ditch at east end</i> <i>drainage off of Twy connector</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Cyperus erulatus</i>	X		FACW	
2. <i>Paspalum maculatum</i>			FACW	
3. <i>Echeveria crass-galli</i>	X		FACW	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

Pics 9-45

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/28/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NW/9-83
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

mower cuts; area mown regularly

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>9R - 16 remaining near</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>prop exhibit on east end</i> <i>F6</i> <i>Geomorphia pointina</i> <i>shepherd swale</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Echinochloa crus-galli</i>	<i>X</i>		<i>FAW</i>	
2. <i>Cyperus eriochloides</i>	<i>X</i>		<i>FAW</i>	
3. <i>Juncus nodulosus</i>			<i>OBL</i>	
4. <i>Juncus tenuis</i>			<i>FAW</i>	
5. <i>Eleocharis obtusa</i>			<i>OBL</i>	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				<i>Pics 9:50</i>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

depression

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/27/19
Applicant/Owner: City of Chicago State: Illinois Wetland #: NWA-94
Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
NWI classification: PEM

gravel deposition in places

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- 2 sections, separated by driveway, connected by 24" culvert
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes - Next to willow creek, Detention area - not connected. - Flows to south - 24" culvert at south end - Unused driveway at south end
1.				
2.				
3.				
4.				
5.				
Herb Stratum			= Total Cover	
1. <i>Phragmites australis</i>	X		FAEW	
2. <i>Sol. Canadensis</i>			FAEW	
3. <i>Lythrum salicaria</i>			OBL	
4.				- Near United Airlines Admin Office
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
Wood Vine Stratum			= Total Cover	
1.				
2.				
			= Total Cover	

Depression

A hand-drawn map showing the intersection of the Willow Creek Detour and the Parkway. The map includes labels for 'Willow Creek Detour', 'Parkway', '#84', '#64', and 'unusable'. The map shows a road intersection with a detour route and a parking area. A horizontal line is drawn across the map, and a vertical line is drawn through the intersection. The detour route is labeled 'Willow Creek Detour' and the main road is labeled 'Parkway'. The intersection is marked with '#84' and '#64'. A small area is labeled 'unusable'.

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SE 19-95
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

mown regularly

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Near concourse L, A21</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>- Reddish dark surface</i> <i>- Swale</i> <i>- geomorphic position</i> <i>- FAC - Neutral</i> <i>- Drop inlet at north end</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1. <i>Cyperus esculentus</i>	<i>X</i>		<i>FAEW</i>	
2. <i>Echinochloa crus-galli</i>			<i>FAEW</i>	
3. <i>Beardspike</i>			<i>FAEW</i>	
4. <i>(Diplachne fusca)</i>			<i>OBL</i>	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				<i>Pics ~ 9:00 am</i>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: SEM-86
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? area mown; construction of pavement
 Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- Near AZ1 & Goto L24
2.				- Twp B
3.				-
4.				
5.				
			= Total Cover	
Sapling/Shrub Stratum				Other Notes
1.				- shallow swale
2.				- run off from pavement
3.				- no outlet
4.				- Depleted matrix
5.				- Geomorphin ponds
			= Total Cover	- FAC-Neutral
Herb Stratum				
1. <i>Cyperus esculentus</i>	X		FACW	
2. <i>Beardus spicatus</i>	X		FACW	
3. <i>Echinochloa crus-galli</i>			FACW	
4. <i>Persicaria sp</i>			FACW	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.)				
<u>depression</u>				

Pics 9:05

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NE19-87
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Soil disturbance from truck activity
 Bare soil over ~40%

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Near D2 Low area in corner of in field area
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes Drop in bit at west end Crescent soils Geomorphic position Depleted Matrix
Sapling/Shrub Stratum				
1.				
2.				
3.				
4.				
5.				
			= Total Cover	
Herb Stratum				
1.	<i>Echinochloa crus-galli</i>	X	FACW	
2.	<i>Cyperus esculentus</i>		FACW	
3.	<i>Sitona peruviana</i>		FAC	
4.	<i>Atriplex patula</i>		FACW	
5.	<i>Persicaria maculosa</i>		FACW	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				Pres 10:00
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Bare soil over ~40%
 Construction of shed close by has likely changed grading & topo
 to allow water to collect

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 0/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NE19-08
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

Some parts mown - area is mown regularly; mown ruts

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Shallow swale in island west of Twy D</i> <i>- partially under construction</i> <i>- silt fence in construction area</i>
2.				
3.				
4.				
5.				
			= Total Cover	Other Notes <i>Standing water in ruts</i> <i>- Depleted matrix and All</i> <i>- Geomorphologic position</i> <i>- FAC Neutral</i>
Sapling/Shrub Stratum				
1.				
2.				
3.				
			= Total Cover	<i>Pics 10:15</i>
Herb Stratum				
1. <i>Typha angustifolia</i>	X		OBL	
2. <i>Eleocharis obtusa</i>	X		OBL	
3. <i>Panicum maculatum</i>	X		FACW	
4. <i>Phragmites australis</i>			FACW	
5. <i>Echinochloa crus-galli</i>			FACW	
6. <i>Cyperus esculentus</i>			FACW	
7.				
8.				
9.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NE19-89
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☒, or Hydrology ☐ significantly disturbed? area is mowed; mowed ruts

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				- Ditch
2.				- 24" culvert at east end
3.				- Near Batch plant, north
4.				
5.				
			= Total Cover	
Sapling/Shrub Stratum				Other Notes
1.				- Shallow ditch
2.				- Standing water in ruts
3.				- Redox land surface
4.				- flows east
5.				
			= Total Cover	
Herb Stratum				
1. <i>Typha angustifolia</i>	X		OBL	
2. <i>Phragmites australis</i>			FRW	
3. <i>Lythrum Salicaria</i>			OBL	- Near AREF#2
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
			= Total Cover	
Wood Vine Stratum				
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

Depression

Pizz 10:55

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: NW19-90
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐, Soil ☐, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				Shallow swale between TwysT and R
2.				
3.				
4.				
5.				
= Total Cover				Other Notes - Redox dark surface - Geomorphic position - FAC Neutral - Some bare soil due to staking work - no work observed
Sapling/Shrub Stratum				
1.				
2.				
3.				
= Total Cover				Herb Stratum 1. <i>Echinocloa crus-galli</i> FACW 2. <i>RCG</i> FACW 3. <i>Diplachne fusca</i> OBL 4. <i>Poa pratensis</i> FAC 5. <i>Hordeum jubatum</i> FAC 6. 7. 8. 9. 10. 11. 12. = Total Cover Wood Vine Stratum 1. 2. = Total Cover
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
= Total Cover				Pres 2:50 p
1.				
2.				
= Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)

Dyquemin

WETLAND DETERMINATION SUPPLEMENTAL FORM

Project/Site: Chicago O'Hare International Airport (ORD) City/County: DuPage/Cook Sampling Date: 8/29/19
 Applicant/Owner: City of Chicago State: Illinois Wetland #: 1W19-91
 Investigator(s): Brauna Hartzell, Kim Shannon, Conor Makepeace, Mead & Hunt, Inc. Section, Township, Range: _____
 NWI classification: PEM

Are climatic hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒, Soil ☐, or Hydrology ☐ significantly disturbed?

Are Vegetation ☐, Soil ☐, or Hydrology ☐ naturally problematic?

mown regularly

ADDITIONAL VEGETATION - Use scientific names of plants

Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	General location within wetland
1.				<i>Shallow swale draining to ditch Twp 81 ditch</i>
2.				
3.				
4.				
5.				
Sapling/Shrub Stratum			= Total Cover	Other Notes <i>- flows to west from pavement</i> <i>- connects to ditch</i> <i>- rip rap at end</i> <i>- soil cracks</i> <i>- geomorphic position</i> <i>- mowed dead surface</i>
1.				
2.				
3.				
4.				
5.				
Herb Stratum			= Total Cover	
1. <i>Cyperus esculentus</i>	X		FAW	
2. <i>Juncus tenuis</i>	X		FAC	
3. <i>Echinochloa crus-galli</i>			FAW	
4. <i>Hordeum jubatum</i>			FAC	
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
Wood Vine Stratum			= Total Cover	<i>Res 3:30</i>
1.				
2.				
			= Total Cover	

Remarks: (Include photo numbers here or on a separate sheet.)

depression